SAFETY AT WORK

Falls on Stairways 29 CFR 1910.24

What could happen on a stairway?

Workers get hurt on stairs because:

- 1. They slipped or fell,
- 2. They tripped over objects on the steps,
- 3. The stair treads were loose.
- 4. They were not holding the handrail,
- 5. The handrails were missing,
- 6. They were holding objects with one or both hands,
- 7. The stairway was poorly maintained.

You can prevent falls on stairs by:

- 1. Maintaining stairway components (foot treads, handrail system, etc.),
- 2. Using stairs correctly, and
- 3. Maintaining good housekeeping.

Maintain stairway components

Every flight of stairs with four or more steps must be equipped with **standard handrails**.

- Stairways less than 44 inches wide must have at least one handrail (preferably on the right side descending).
- If a stairway has an open side, that side must be protected with standard railing.
- Stairways more than 44 inches must have two handrails.
- Stairways more than 88 inches wide need a handrail on both sides and midway between the sides.



 Where doors open directly onto a stairway, a platform must be provided, and the swing of the door must leave 20 inches of effective width on the platform.

Standard Handrail System

- Stair rails must be between 30 and 34 inches from the upper surface of the handrail to the surface of the stair tread at the front edge of the tread.
- A handrail must consist of a continuous piece of material mounted directly on a wall or partition by means of brackets attached to the lower side of the handrail so it will offer no obstruction to a smooth surface along the top and both sides of the handrail.
- There must be a three-inch space between the handrail and the wall or other projection.
- The brackets supporting the handrail must be spaced no more than 8 feet apart.
- The handrail must be capable of withstanding a load of at least 200 pounds applied in any direction at any point on the rail.

Stair treads

- Are they securely attached?
- Are they structurally sound?
- Are they slip-resistant?
- Is the rise-height evenly spaced?
- Is the stair width the same?
- Is the tread depth the same?
- Is the leading edge of the tread distinguishable from the rest of the step?

Stairway Landings

- Stairway landings must be protected by a standard railing system whenever there is an open side, four feet or more above the adjacent floor or ground. A standard railing includes:
 - A top rail and intermediate rail:
 - A standard toeboard must be provided whenever a person could pass beneath the landing, where there is moving machinery under the landing, or if falling materials



could create a hazard to equipment under the landing;

 A standard toeboard is 4 inches in height above the floor surface and cannot have a gap between the floor and the bottom of the toeboard of more than ¼-inch.

Use Stairs Correctly

- Hold the handrail as you are ascending and descending stairs.
- Don't carry objects with both hands.

- Stay to the right when others are or may be on the stairs.
- Look for hazards on the stairs (i.e. water or other slippery liquids, boxes, parts or equipment, small objects like nuts & bolts or pens you could slip on).
- Don't run on stairs. Take stairs one step at a time.
- People with new glasses should be extra careful on stairs.

Maintain Good Housekeeping

Proper housekeeping procedures can eliminate stairway slip, trip, and fall hazards.

- Repair or block off stairs that have compromised stair treads or handrails.
- Don't allow employees to use defective stairs.
- Don't allow anyone to leave anything on the stairs.
 - Boxes and other bulky items block access to stairs and can cause workers to trip.
 - Small items like pens and pencils, paper, trash, paperclips, or anything else on stairs can cause workers' feet to slip out from under them and result in a fall.
- Clean up liquids or other slippery substances on stairs as soon as possible.
- Pick up all objects that are left on stair treads or at the top or bottom of stairways.
- Make sure you have good lighting in stairwells ... you can't avoid what you can't see!

•	Don't use stairwells or steps as storage areas.